

Please type a plus sign (+) inside this box → +

PTO/SB/05 (12/97)

Approved for use through 09/30/00. CMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid CMB control number.

**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional application under 37 CFR 1.53(b))

Attorney Docket No.

98-1850 (0364-000928)

Total Pages 25

First Named Inventor or Application Identifier

Cyrus N. Ashtiani, et al

Express Mail Label No.

EJ470328519 US

**Application Elements**

See MPEP chapter 600 concerning utility patent application contents.

**ADDRESS TO:** Assistant Commissioner for Patent  
Box Patent Application  
Washington, D.C. 20231

1. ☒ **Fee Transmittal Form** [Total Pages 2]  
(Submit an original, and a duplicate for fee processing)

2. ☒ **Specification** [Total Pages 13 - including cover sheet]

(preferred arrangement set forth below)

-Descriptive title of the invention

-Cross References to Related Applications

-Statement Regarding Fed sponsored R&D

-Reference to Microfiche Appendix

-Background of the Invention

-Brief Summary of the Invention

-Brief Description of the Drawings (if filed)

-Detailed Description

-Claim(s)

-Abstract of the Disclosure

3. ☒ **Drawings(s)** (35 USC 113) [Total Sheets 6]

4. ☒ **Oath or Declaration** [Total Pages \_\_\_\_]

a. ☐ Newly executed (original or copy)

b. ☐ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 17 completed)  
(Note Box 5 below)

i. ☐ **DELETION OF INVENTOR(S)**

Signed statement attached deleting

Inventor(s) named in the prior application

See 37 CFR 1.63(d)(2) and 1.33(b).

5. ☒ **Incorporation By Reference** useable if Box 4b is  
Checked) The entire disclosure of the prior  
Application, from which a copy of the oath  
or declaration is supplied under Box 4b, is  
considered as being part of the disclosure  
of the accompanying application and is  
hereby incorporated by references  
therein.

6. ☐ **Microfiche Computer Program** (Appendix)

7. **Nucleotide and/or Amino Acid Sequence Submission**

(If applicable, all necessary)

a. ☐ Computer Readable Copy

b. ☐ Paper Copy (identical to computer copy)

c. ☐ Statement verifying identity of above copies

**ACCOMPANY APPLICATION PARTS**

8. ☐ **Assignment Papers** (cover sheet & document(s)) [Total Pages \_\_\_\_]

9. ☐ **37 CFR 3.73(b) Statement**  
(when there is an assignee ☐ Power of Attorney)

10. ☐ **English Translation Document** (if applicable)

11. ☐ **Information Disclosure**  
Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations

12. ☐ **Preliminary Amendment**

13. ☒ **Return Receipt Postcard** (MPEP 503)  
(Should be specifically itemized)

14. ☐ **Small Entity** ☐ Statement filed in prior application,  
Statement(s) Status still proper and desired

15. ☐ **Certified Copy of Priority Document(s)**

16. ☒ **Other:** Unexecuted Declaration [Total Pages 2]

17. If a CONTINUING APPLICATION, Check appropriate box and supply the requisite information:

Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_/\_\_\_\_\_

**18. CORRESPONDENCE ADDRESS**

☐ Customer Number or Bar Code Label

or ☒ Correspondence address below

(Insert Customer No. or Attach bar code label here)

NAME

Jennifer M. Stec

ADDRESS

DaimlerChrysler Corporation

DaimlerChrysler Technology Center

800 Chrysler Drive East

CITY

Auburn Hills

STATE

Michigan

ZIP CODE

48326-2757

COUNTRY

United States


TELEPHONE

(248) 576-8021

FAX

(248) 576-7905

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<h2 style="margin: 0;">FEE TRANSMITTAL</h2> <p style="margin: 5px 0;">Note: Effective October 1, 1997. Patent fees are subject to annual revision.</p>		*Complete If Known																																																																																																																																																																																									
		Application Number																																																																																																																																																																																									
		Filing Date																																																																																																																																																																																									
		First Named Inventor <b>Cyrus N. Ashtiani, et al</b>																																																																																																																																																																																									
		Group Art Unit																																																																																																																																																																																									
Examiner Name																																																																																																																																																																																											
TOTAL AMOUNT OF PAYMENT		(\$ <b>760.00</b> )      Attorney Docket No. <b>98-1850 (0364-000928)</b>																																																																																																																																																																																									
METHOD OF PAYMENT (check one)		FEE CALCULATION (continued)																																																																																																																																																																																									
1. <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to: Deposit Account Number _____ Deposit Account Name <u>DaimlerChrysler Corporation</u>  <input type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 <input checked="" type="checkbox"/> Fee will be paid within the time allotted.		3. ADDITIONAL FEES <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Lrg. Ent.</th> <th colspan="2">Sm. Ent</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td>_____</td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet.</td><td>_____</td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td>_____</td></tr> <tr><td>147</td><td>2520</td><td>147</td><td>2520</td><td>For filing a request for reexamination</td><td>_____</td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td>_____</td></tr> <tr><td>113</td><td>1840*</td><td>113</td><td>1840*</td><td>Requesting publication of SIR after Examiner action</td><td>_____</td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td>_____</td></tr> <tr><td>116</td><td>400</td><td>216</td><td>200</td><td>Extension for reply within second month</td><td>_____</td></tr> <tr><td>117</td><td>950</td><td>217</td><td>475</td><td>Extension for reply within third month</td><td>_____</td></tr> <tr><td>118</td><td>1510</td><td>218</td><td>755</td><td>Extension for reply within fourth month</td><td>_____</td></tr> <tr><td>128</td><td>2060</td><td>228</td><td>1030</td><td>Extension for reply within fifth month</td><td>_____</td></tr> <tr><td>119</td><td>310</td><td>219</td><td>155</td><td>Notice of Appeal</td><td>_____</td></tr> <tr><td>120</td><td>310</td><td>220</td><td>155</td><td>Filing a brief in support of an appeal</td><td>_____</td></tr> <tr><td>121</td><td>270</td><td>221</td><td>135</td><td>Request for oral hearing</td><td>_____</td></tr> <tr><td>138</td><td>1510</td><td>138</td><td>1510</td><td>Petition to institute/public use proc.</td><td>_____</td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td><td>_____</td></tr> <tr><td>141</td><td>1320</td><td>240</td><td>660</td><td>Petition to revive - unintentional</td><td>_____</td></tr> <tr><td>142</td><td>1320</td><td>242</td><td>660</td><td>Utility issue fee (or reissue)</td><td>_____</td></tr> <tr><td>143</td><td>450</td><td>243</td><td>225</td><td>Design issue fee</td><td>_____</td></tr> <tr><td>144</td><td>670</td><td>244</td><td>335</td><td>Plant issue fee</td><td>_____</td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td>_____</td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional app.</td><td>_____</td></tr> <tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission Information Disclosure Stmt</td><td>_____</td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td>_____</td></tr> <tr><td>146</td><td>790</td><td>246</td><td>395</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td>_____</td></tr> <tr><td>149</td><td>790</td><td>249</td><td>395</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td>_____</td></tr> <tr><td colspan="6">Other fee (specify) _____</td></tr> <tr><td colspan="6">Other fee (specify) _____</td></tr> <tr> <td colspan="2">*Reduced by Basic Filing Fee Paid</td> <td colspan="2">SUBTOTAL (3)</td> <td colspan="2">(\$ <b>\$ 0.00</b>)</td> </tr> </tbody> </table>		Lrg. Ent.		Sm. Ent		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	105	130	205	65	Surcharge - late filing fee or oath	_____	127	50	227	25	Surcharge - late provisional filing fee or cover sheet.	_____	139	130	139	130	Non-English specification	_____	147	2520	147	2520	For filing a request for reexamination	_____	112	920*	112	920*	Requesting publication of SIR prior to Examiner action	_____	113	1840*	113	1840*	Requesting publication of SIR after Examiner action	_____	115	110	215	55	Extension for reply within first month	_____	116	400	216	200	Extension for reply within second month	_____	117	950	217	475	Extension for reply within third month	_____	118	1510	218	755	Extension for reply within fourth month	_____	128	2060	228	1030	Extension for reply within fifth month	_____	119	310	219	155	Notice of Appeal	_____	120	310	220	155	Filing a brief in support of an appeal	_____	121	270	221	135	Request for oral hearing	_____	138	1510	138	1510	Petition to institute/public use proc.	_____	140	110	240	55	Petition to revive - unavoidable	_____	141	1320	240	660	Petition to revive - unintentional	_____	142	1320	242	660	Utility issue fee (or reissue)	_____	143	450	243	225	Design issue fee	_____	144	670	244	335	Plant issue fee	_____	122	130	122	130	Petitions to the Commissioner	_____	123	50	123	50	Petitions related to provisional app.	_____	126	240	126	240	Submission Information Disclosure Stmt	_____	581	40	581	40	Recording each patent assignment per property (times number of properties)	_____	146	790	246	395	Filing a submission after final rejection (37 CFR 1.129(a))	_____	149	790	249	395	For each additional invention to be examined (37 CFR 1.129(b))	_____	Other fee (specify) _____						Other fee (specify) _____						*Reduced by Basic Filing Fee Paid		SUBTOTAL (3)		(\$ <b>\$ 0.00</b> )	
Lrg. Ent.		Sm. Ent		Fee Description	Fee Paid																																																																																																																																																																																						
Fee Code	Fee (\$)	Fee Code	Fee (\$)																																																																																																																																																																																								
105	130	205	65	Surcharge - late filing fee or oath	_____																																																																																																																																																																																						
127	50	227	25	Surcharge - late provisional filing fee or cover sheet.	_____																																																																																																																																																																																						
139	130	139	130	Non-English specification	_____																																																																																																																																																																																						
147	2520	147	2520	For filing a request for reexamination	_____																																																																																																																																																																																						
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	_____																																																																																																																																																																																						
113	1840*	113	1840*	Requesting publication of SIR after Examiner action	_____																																																																																																																																																																																						
115	110	215	55	Extension for reply within first month	_____																																																																																																																																																																																						
116	400	216	200	Extension for reply within second month	_____																																																																																																																																																																																						
117	950	217	475	Extension for reply within third month	_____																																																																																																																																																																																						
118	1510	218	755	Extension for reply within fourth month	_____																																																																																																																																																																																						
128	2060	228	1030	Extension for reply within fifth month	_____																																																																																																																																																																																						
119	310	219	155	Notice of Appeal	_____																																																																																																																																																																																						
120	310	220	155	Filing a brief in support of an appeal	_____																																																																																																																																																																																						
121	270	221	135	Request for oral hearing	_____																																																																																																																																																																																						
138	1510	138	1510	Petition to institute/public use proc.	_____																																																																																																																																																																																						
140	110	240	55	Petition to revive - unavoidable	_____																																																																																																																																																																																						
141	1320	240	660	Petition to revive - unintentional	_____																																																																																																																																																																																						
142	1320	242	660	Utility issue fee (or reissue)	_____																																																																																																																																																																																						
143	450	243	225	Design issue fee	_____																																																																																																																																																																																						
144	670	244	335	Plant issue fee	_____																																																																																																																																																																																						
122	130	122	130	Petitions to the Commissioner	_____																																																																																																																																																																																						
123	50	123	50	Petitions related to provisional app.	_____																																																																																																																																																																																						
126	240	126	240	Submission Information Disclosure Stmt	_____																																																																																																																																																																																						
581	40	581	40	Recording each patent assignment per property (times number of properties)	_____																																																																																																																																																																																						
146	790	246	395	Filing a submission after final rejection (37 CFR 1.129(a))	_____																																																																																																																																																																																						
149	790	249	395	For each additional invention to be examined (37 CFR 1.129(b))	_____																																																																																																																																																																																						
Other fee (specify) _____																																																																																																																																																																																											
Other fee (specify) _____																																																																																																																																																																																											
*Reduced by Basic Filing Fee Paid		SUBTOTAL (3)		(\$ <b>\$ 0.00</b> )																																																																																																																																																																																							
2. <input type="checkbox"/> Payment Enclosed: <input type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other																																																																																																																																																																																											
FEE CALCULATION																																																																																																																																																																																											
1. Filing Fee <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity (\$)</th> <th>Small Fee Code</th> <th>Entity (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>101</td><td>760</td><td>201</td><td>380</td><td>Utility filing fee</td><td><u>760.00</u></td></tr> <tr><td>106</td><td>330</td><td>206</td><td>165</td><td>Design filing fee</td><td>_____</td></tr> <tr><td>107</td><td>540</td><td>207</td><td>270</td><td>Plant filing fee</td><td>_____</td></tr> <tr><td>408</td><td>790</td><td>208</td><td>395</td><td>Reissue filing fee</td><td>_____</td></tr> <tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td>_____</td></tr> <tr><td colspan="5" style="text-align: right;">SUBTOTAL (1) (\$)</td><td><b>760.00</b></td></tr> </tbody> </table>		Large Fee Code	Entity (\$)	Small Fee Code	Entity (\$)	Fee Description	Fee Paid	101	760	201	380	Utility filing fee	<u>760.00</u>	106	330	206	165	Design filing fee	_____	107	540	207	270	Plant filing fee	_____	408	790	208	395	Reissue filing fee	_____	114	150	214	75	Provisional filing fee	_____	SUBTOTAL (1) (\$)					<b>760.00</b>																																																																																																																																																
Large Fee Code	Entity (\$)	Small Fee Code	Entity (\$)	Fee Description	Fee Paid																																																																																																																																																																																						
101	760	201	380	Utility filing fee	<u>760.00</u>																																																																																																																																																																																						
106	330	206	165	Design filing fee	_____																																																																																																																																																																																						
107	540	207	270	Plant filing fee	_____																																																																																																																																																																																						
408	790	208	395	Reissue filing fee	_____																																																																																																																																																																																						
114	150	214	75	Provisional filing fee	_____																																																																																																																																																																																						
SUBTOTAL (1) (\$)					<b>760.00</b>																																																																																																																																																																																						
2. CLAIMS <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Extra</th> <th>Fee from Below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Total Claims</td> <td>1 - 20 =</td> <td>0 X</td> <td>= <b>\$ 0.00</b></td> </tr> <tr> <td>Independent Claims</td> <td>1 - 3 =</td> <td>0 X</td> <td>= <b>\$ 0.00</b></td> </tr> <tr> <td>Multiple Dependent Claims</td> <td></td> <td>X</td> <td>= _____</td> </tr> </tbody> </table> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity (4)(\$)</th> <th>Small Fee Code</th> <th>Entity (\$)</th> <th>Fee Description</th> </tr> </thead> <tbody> <tr><td>103</td><td>22</td><td>203</td><td>11</td><td><input type="checkbox"/> Claims in excess of 20</td></tr> <tr><td>102</td><td>82</td><td>202</td><td>41</td><td><input type="checkbox"/> Independent claims in excess of 3</td></tr> <tr><td>104</td><td>270</td><td>204</td><td>135</td><td><input type="checkbox"/> Multiple dependent claims</td></tr> <tr><td>109</td><td>82</td><td>209</td><td>41</td><td><input type="checkbox"/> Reissue independent claims over original patent</td></tr> <tr><td>110</td><td>22</td><td>210</td><td>11</td><td><input type="checkbox"/> Reissue claims in excess of 20 and over original patent</td></tr> <tr><td colspan="5" style="text-align: right;">SUBTOTAL (2) (\$)</td><td><b>\$ 0.00</b></td></tr> </tbody> </table>			Extra	Fee from Below	Fee Paid	Total Claims	1 - 20 =	0 X	= <b>\$ 0.00</b>	Independent Claims	1 - 3 =	0 X	= <b>\$ 0.00</b>	Multiple Dependent Claims		X	= _____	Large Fee Code	Entity (4)(\$)	Small Fee Code	Entity (\$)	Fee Description	103	22	203	11	<input type="checkbox"/> Claims in excess of 20	102	82	202	41	<input type="checkbox"/> Independent claims in excess of 3	104	270	204	135	<input type="checkbox"/> Multiple dependent claims	109	82	209	41	<input type="checkbox"/> Reissue independent claims over original patent	110	22	210	11	<input type="checkbox"/> Reissue claims in excess of 20 and over original patent	SUBTOTAL (2) (\$)					<b>\$ 0.00</b>																																																																																																																																						
	Extra	Fee from Below	Fee Paid																																																																																																																																																																																								
Total Claims	1 - 20 =	0 X	= <b>\$ 0.00</b>																																																																																																																																																																																								
Independent Claims	1 - 3 =	0 X	= <b>\$ 0.00</b>																																																																																																																																																																																								
Multiple Dependent Claims		X	= _____																																																																																																																																																																																								
Large Fee Code	Entity (4)(\$)	Small Fee Code	Entity (\$)	Fee Description																																																																																																																																																																																							
103	22	203	11	<input type="checkbox"/> Claims in excess of 20																																																																																																																																																																																							
102	82	202	41	<input type="checkbox"/> Independent claims in excess of 3																																																																																																																																																																																							
104	270	204	135	<input type="checkbox"/> Multiple dependent claims																																																																																																																																																																																							
109	82	209	41	<input type="checkbox"/> Reissue independent claims over original patent																																																																																																																																																																																							
110	22	210	11	<input type="checkbox"/> Reissue claims in excess of 20 and over original patent																																																																																																																																																																																							
SUBTOTAL (2) (\$)					<b>\$ 0.00</b>																																																																																																																																																																																						
SUBMITTED BY		Complete (if applicable)																																																																																																																																																																																									
Typed or Printed Name <b>Gregory A. Walters</b>		Reg. Number <b>41,366</b>																																																																																																																																																																																									
Signature 		Date <b>12/31/98</b>	Deposit Account User ID _____																																																																																																																																																																																								

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Office, Patent and Trademark Office Washington, D.C. 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SENT TO: Assistant Commissioner for Patents, Washington, D.C. 20231.

**HARNES, DICKEY & PIERCE, P.L.C.**  
ATTORNEYS AND COUNSELORS  
P.O. BOX 828  
BLOOMFIELD HILLS, MICHIGAN 48303  
U.S.A.

TELEPHONE  
(248) 641-1600

TELEFACSIMILE  
(248) 641-0270

Date: December 31, 1998

Hon. Commissioner of Patents and Trademarks  
Box Patent Application  
Washington, D.C. 20231

Sir:

**EXPRESS MAILING CERTIFICATE**

Applicants: Cyrus N. Ashtiani and Thomas A. Stuart

Serial No. (if any): To Be Assigned

For: BATTERY SELF-WARMING MECHANISM USING THE INVERTER  
AND THE BATTERY MAIN DISCONNECT CIRCUITRY

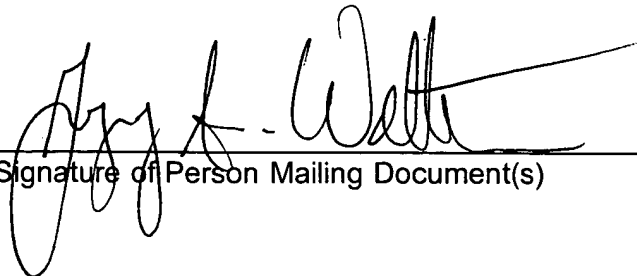
Docket: 98-1850 (0364-000928)

Attorney: Gregory A. Walters

"Express Mail" Mailing Label Number ..... EJ470328519US

Date of Deposit ..... December 31, 1998

I hereby certify and verify that the accompanying **Utility Patent Application Transmittal; Fee Transmittal (in duplicate); 13-Page patent application (including cover sheet; 1 claim; and an abstract); Unexecuted Declaration; Six (6) Sheets of Drawings (Figs. 1-7); and return postcard** are being deposited with the United States Postal Service "Express Mail Post Office To Addressee" service under 37 C.F.R. 1.10 on the date indicated above and are addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

  
\_\_\_\_\_  
Signature of Person Mailing Document(s)